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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,098	08/22/2003	Sean Burke	23627-07932	9868

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EXAMINER	
RAO, ANAND SHASHIKANT	
ART UNIT	**PAPER NUMBER**
2621	

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08/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/647,098	BURKE ET AL.	
	Examiner	Art Unit	
	Andy S. Rao	2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *07 June 2007*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,21,33 and 35-52* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,21,33 and 35-52* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Response to Amendment

1. As per the Applicant's instructions as filed in on 6/7/07, claims 2-20, 22-32, and 34 have been canceled, and claims 35-52 have been added.

2. Applicant's arguments with respect to claims 1, 21, 33, 35-52 as filed on 6/7/07 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1, 21, 33, 35-52 are rejected under 35 U.S.C. 102(b) as being anticipated by Moezzi et al., (hereinafter referred to as "Moezzi").

Moezzi discloses network-based (Moezzi: column 38, lines 40-50) surveillance system (Moezzi: figure 17) for real time monitoring (Moezzi: column 22, lines 55-65) of an environment (Moezzi: figure 1), comprising: a first sensor service unit operatively coupled to a first immersive panoramic sensor for capturing in real time (Moezzi: column 25, lines 10-20) two or more overlapping digital images (Moezzi: column 24, lines 40-55) to generate first video data representing a first immersive panoramic field of view of the environment (Moezzi: column 23, lines 50-65; column 16, lines 25-35) a sensor subsystem for providing real time spherical image data and surveillance data (Moezzi: column 24, lines 10-25); a network operatively coupled to

the sensor system for delivering the spherical image data and surveillance data to a management console (Moezzi: column 38, lines 30-40); and a management console operatively coupled to the network for receiving the spherical image data and the surveillance data and generating a spherical view display using the spherical image data (Moezzi: column 34, lines 30-55) and situational awareness management display using the surveillance data (Moezzi: column 42, lines 30-42), the network also operatively coupled to the first sensor service unit to allow transmission of the first video data from the first sensor service unit to the management console (Moezzi: column 23, lines 5-20), the management console including a sensor display subsystem for displaying an immersive panoramic video based at least in part on the first video data transmitted over the network from the first sensor service unit (Moezzi: column 33, lines 5-20); and a data repository operatively coupled to the network for storing and retrieving the first video data marked with time-indices (Moezzi: column 38, lines 30-40), the time indices representing times at which the overlapping digital images were captured by the first immersive panoramic sensor (Moezzi: column 29, lines 20-33), as in claim 1.

Moezzi discloses a network-based (Moezzi: column 38, lines 40-50) method (Moezzi: column 9, lines 45-65) of real time monitoring (Moezzi: column 22, lines 55-65) an environment (Moezzi: figure 1), comprising: generating (Moezzi: column 23, lines 50-65; column 16, lines 25-35), at a first sensor service unit (Moezzi: column 25, lines 10-20), first video data representing a first immersive panoramic field of view of the environment from two or more overlapping digital images (Moezzi: column 24, lines 40-55) captured in real time by a first immersive panoramic sensor capturing real-time spherical image data at a sensor subsystem (Moezzi: column 38, lines 30-40); monitoring the spherical image data for motion (Moezzi:

column 23, lines 29-37); responsive to detection of motion, generating motion detection event data (Moezzi: column 26, lines 15-35); delivering the spherical image data and motion detection event data to a management console via a network (Moezzi: column 33, lines 5-20); and at a the management console, displaying a first immersive panoramic video based at least in part on the first video data transmitted over the network from the first sensor service unit generating a spherical view display using the spherical image data (Moezzi: column 42, lines 30-42); and storing or retrieving, at a data repository, the first video transmitted over the network, the first video data marked with time indices (Moezzi: column 38, lines 30-40) representing times at which the overlapping digital images were captured by the first immersive panoramic sensor (Moezzi: column 29, lines 20-33), as in claim 21.

Moezzi discloses a computer program product comprising computer-readable storage medium structured to store instructions (Moezzi: column 11, lines 55-67; column 12, lines 1-26: "software program") executable by a processor in a surveillance system (Moezzi: figure 17), the instructions, when executed, cause the processor to perform the operations of: at a first sensor service unit (Moezzi: column 25, lines 10-20), generate first video data (Moezzi: column 23, lines 50-65; column 16, lines 25-35) representing a first immersive panoramic field of view of the environment from two or more overlapping digital images (Moezzi: column 24, lines 40-55) captured in real time by a first immersive panoramic sensor receiving spherical image data and surveillance data from at least one sensor (Moezzi: column 38, lines 30-40); integrating the spherical image data and surveillance data (Moezzi: column 28, lines 35-45); and at a management console, display an immersive panoramic video based at least in part on the first video data transmitted over the network from the first sensor service unit (Moezzi: column 42,

lines 30-42) displaying the integrated spherical image data and surveillance data on a user interface and at a data repository (Moezzi: column 33, lines 5-20), store or retrieve the first video data transmitted over the network, the first video data marked with time indices representing times (Moezzi: column 38, lines 30-40) at which the overlapping digital images were captured by the first immersive panoramic sensor (Moezzi: column 29, lines 20-33), as claim 33.

Regarding claims 35-37, Moezzi discloses wherein the first sensor service unit further comprises a motion detector for generating a sensor specific motion detection event data (Moezzi: column 23, lines 27-42) indicating detection of motion in the two or more overlapping images (Moezzi: column 23, lines 27, lines 35-50), the management console operatively coupled to the motion detector for generating a motion detection alarm event based on the sensor specific motion detection event data (Moezzi: column 42, lines 20-62), as in the claims.

Regarding claims 38-39, Moezzi discloses a second sensor service unit operatively coupled to a second immersive panoramic sensor for capturing in real time two or more overlapping digital images to generate second video data representing a second immersive panoramic field of view of the environment, the second sensor service unit operatively coupled to the network to transmit the second video data to the management console (Moezzi: column 29, lines 15-30), as in the claims.

Regarding claims 40-41, Moezzi discloses a second sensor service unit operatively coupled to a non-image surveillance sensor system, the non-image surveillance sensor system generating non-image event data based on surveillance of the environment but not based on overlapping digital images, the management console operatively coupled to the second sensor

service unit to receive the non-image event data via the network (Moezzi: column 47, lines 45-67; column 48, lines 1-45), as in the claims.

Regarding claims 42-44, Moezzi discloses wherein the data repository comprises an image store for storing and retrieving the overlapping digital images received from the first sensor service unit via the network (Moezzi: figure 17), and a non-image store for storing and retrieving the non-image event data received from the second sensor service unit via the network (Moezzi: column 42, lines 23-62), as in the claims.

Regarding claim 45, Moezzi discloses wherein the first sensor service unit transmits a heartbeat message to the management console, the heartbeat message indicating that the first sensor service unit is enabled and actively communicating with the management console via the network (Moezzi: column 29, lines 50-67; column 30, lines 1-23), as in the claim.

Regarding claims 46-48, further comprising: at the first sensor service unit, generating a sensor specific motion detection event data indicating detection of motion in the two or more overlapping images (Moezzi: column 27, lines 35-50); and at the first sensor service unit, generating a motion detection alarm event (Moezzi: column 42, lines 20-62), based on the sensor specific motion detection event data (Moezzi: column 23, lines 25-35), as in the claims.

Regarding claims 49-50, Moezzi discloses further comprising: at a second service unit, generating second video data representing a second immersive panoramic field of view of the environment from two or more overlapping digital images captured in real time by a second immersive panoramic sensor; at the management console, displaying a second immersive panoramic video based at least in part on the second video data transmitted over the network from

the second sensor service unit; and at the data repository, storing or retrieving the second video data (Moezzi: column 29, lines 19-41), as in the claims.

Regarding claim 51, Moezzi discloses a at a second service unit, generating non-image event data based on surveillance of the environment but not based on overlapping digital images (Moezzi: column 47, lines 45-67; column 48, lines 1-45); at the management console, receiving the non-image event data via the network; and at the data repository, storing or retrieving the non-image event data (Moezzi: column 42, lines 23-62), as in the claim.

Regarding claim 52, Moezzi discloses wherein the first sensor service unit transmits a heartbeat message to the management console, the heartbeat message indicating that the first sensor service unit is enabled and actively communicating with the management console via the network (Moezzi: column 29, lines 50-67; column 30, lines 1-23), as in the claim.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

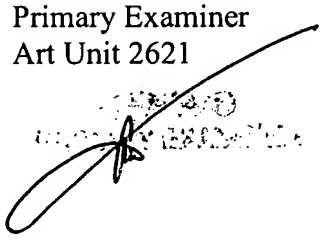
however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andy S. Rao whose telephone number is (571)-272-7337. The examiner can normally be reached on Monday-Friday 8 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571)-272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andy S. Rao
Primary Examiner
Art Unit 2621



asr
August 15, 2007